REMARKS

3. Specification

The titles "Brief description of the drawings and performance data" and "Disclosure of the invention" in pages 10 and 12 respectively of the clean version of the specification, are changed to "Brief Description of the Several Views of the Drawings" and "Detailed Description of the Invention" for clarification as per your instructions.

4. Claim Objections

In claim 12 the terms "can be" in lines 11 and 18 are amended to read "is" in line 11 (line 17 in marked up copy) and "are" in line 18 (line 25 in marked up copy).

5. Claim Rejections - 35 USC § 112

It is believed that with your recommended corrections incorporated into the amendments, the second paragraph of 35 U.S.C. 112 is satisfied in that the specification concludes with one or more claims particularly pointing out and distinctly claiming the subject matter which is regarded as the invention.

6. Claim Rejections - 35 USC § 112

In claim 7 the limitation "using a least-squares recursive recursion algorithm in figures 4,5" is replaced by "using a least-squares recursive algorithm" as per your recommendation to avoid having to specify what is included or excluded from figures 4,5. In line 8 on the second page, the phrase "an example means being the eigenvalue algorithm," is deleted to avoid rendering the claim infefinite because it is unclear whether the limitations following the phrase are part of the claimed invention.

In claim 10 the equations (11),(18), and (20) are described prior to the limitation "implementing equations (11),(18),(20)" in order to render this limitation valid. Further, the limitations "the new frequency" is replaced by "frequency" in line 15 (now line 21), and "the sampling time interval" in lines 17 (now line 24) is replaced by "time interval between samples" to eliminate antecedent basis requirements. In addition, the phrase "and wherein" is inserted in lines 22-23 to introduce the definitions of the parameters as sub-paragraphs. The "the sub-sampling, the over-sampling, and the translation interval between Wavelets" in lines 25-26 are replaced with "sub-sampling, over-sampling and translation interval between Wavelets".

In claim 12 the equations (11),(18), and (20) are described prior to the limitation "implementing equations (11),(18),(20)" in order to render this limitation valid. The limitations "synthetic aperture radar as demonstrated in figures 7,8" in lines 21-22 (lines 27-28 in the marked up claims) is replaced by "synthetic aperture radar." to eliminate the limitations in figures 7,8.

7. Allowable Subject Matter

Claims 7-8,10, and 12 are re-written and amended to overcome the rejection(s) under 35 U.S.C. 112 2nd paragraph and accordingly are expected to be allowable.
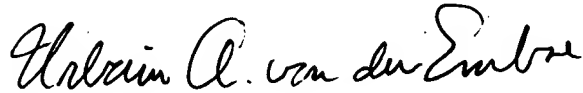
9a. Conclusion

U.S. Patent No. 6,553,396 by Fukuara et al provides background information on current techniques to deriving uniform filter banks using a poly-phase approach described by the prior-art Wavelet Iterated Filter Bank construction in FIG. 2 to tile a time-frequency space, and wherein at each step the frequency band is partitioned into a high-pass-filter (HPF) and a low-pass-filter (LPF) and with the filter coefficients determined by the

scaling equations which is equivalent to the polyphase construction in the current art and in the invention disclosure.

9. Conclusions

Thanks for all of your help and guidance.

Sincerely,

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